

AP20 Rec'd PCT/PTO 06 JUL 2006  
Attorney Docket No. 0796-1732

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: )  
Harue NAKASHIMA et al. ) Attention: DO/EO/US  
Based on PCT/JP2005/024212 )  
Filed: December 26, 2005 )  
For: CARBAZOLE DERIVATIVE, AND )  
LIGHT-EMITTING ELEMENT AND )  
LIGHT-EMITTING DEVICE USING )  
THE CARBAZOLE DERIVATIVE )

**INFORMATION DISCLOSURE STATEMENT**

Honorable Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56 and 37 C.F.R. 1.97-1.99, Applicant submits herewith a Form PTO-1449 listing information known to Applicant and requests that this information be made of record in the above identified application. Copies are submitted herewith in accordance with 37 C.F.R. 1.98(a).

Copies of U.S. patents and U.S. publications are not enclosed in accordance with the Notice published in the Official Gazette on August 5, 2003 entitled *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003*, which waives the requirement under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. publication.

EP 1 452 574 and U.S. Patent Publication No. 2004/0151944 are in the family of WO 2003/048268.

EP 0 762 219 and U.S. Patent No. 5,756,248 are in the family of JP 09-134020.

Receipt date: 07/06/2006

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- 2 -

Attorney Docket No. 0756-7732

U.S. Patent Publication No. 2006/0020136 is the family of JP 2006-028176.

U.S. Patent Publication No. 2005/0221124 is in the family of JP 2005-290000.

Respectfully submitted,



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Approved for use through 10/31/2002 OMB 0651-0031

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Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
Sheet	1	of	2	Attorney Docket Number	
				0756-7732	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
		2004/0151944		Onikubo et al.	08/05/2004
		5,756,248		Tanaka et al.	05/26/1998
		2006/0020136		Hwang et al.	01/26/2006
		2005/0221124		Hwang et al.	10/06/2005

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)		
		WO	2003/048268		06/12/2003	Abst.
		EP	1 452 574		09/01/2004	Eng.
		JP	2003-129043		05/08/2003	Abst.
		EP	0 762 219		03/12/1997	Eng.
		JP	09-134020		05/20/1997	Abst.
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		JP	2005-290000		10/20/2005	Abst.
		JP	3210481		09/17/2001	Abst.
		JP	09-301934		11/25/1997	Abst.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
		Di Liu et al., Synthetic Metals, Enhancement in Brightness and Efficiency of Organic Electroluminescent Device Using Novel N,N-di(9-ethylcarbaz-3-yl)-3-methylaniline as Hole Injecting and Transporting Material, 08/07/2004, Vol. 146, No. 1, pp. 85-89		
		A. Balionyte et al., Synthesis and Properties of Polymers Containing Aromatic Amino Groups in the Main Chain and Their Glass-Forming Model Compounds, European Polymer Journal, April 30, 2004, Vol. 40, No. 8, pp. 1645-1650		

Examiner Signature	/Andrew K. Bohaty/	Date Considered	06/16/2009
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	10/585326
		Filing Date	July 6, 2006
		First Named Inventor	Harue NAKASHIMA et al.
		Group Art Unit	
		Examiner Name	
Sheet	2	of	2
		Attorney Docket Number	0756-7732

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

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		Office <sup>3</sup>	Number <sup>4</sup> (if known)				

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		Balonyte et al., Potential Hole-Transport Materials Prepared by Ullmann Coupling, Environmental and Chemical Physics, 2002, Vol. 24, No. 1, pp. 30-34	
		K.R. Justin Thomas et al., Light-Emitting Carbazole Derivatives: Potential Electroluminescent Materials, Journal of the American Chemical Society, Vol. 123, No. 38, pp. 9404-9411	
		K.R. Justin Thomas et al., Cyanocarbazole Derivatives for High-Performance Electroluminescent Devices, Advanced Functional Materials, 2004, Vol. 14, No. 4, pp. 387-392	
		International Search Report (Application No. PCT/JP2005/024212) dated February 21, 2006	
		Written Opinion (Application No. PCT/JP2005/024212) dated February 21, 2006	

Examiner Signature	/Andrew K. Bohaty/	Date Considered	06/16/2009
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